WE CLAIM:

- 1. A system for establishing therapy parameters of an implantable medical device comprising in combination:
 - (a) at least one implantable lead;
 - (b) an external neural stimulator capable of being coupled to the implantable lead to provide stimulation energy to the lead in accordance with the initial therapy parameters;
 - (c) a programmer having a user interface to allow entry of the therapy parameters by a user; and
 - (d) a bi-directional communications link between the programmer and the external neural stimulator to enable the programmer to program the external neural simulator with the therapy parameters via the bi-directional communications link and to enable the external neural stimulator to provide final therapy parameter settings to the programmer, whereby the programmer may then program an implantable neural stimulator using the final therapy parameters.
- 2. The system as claimed in claim 1, further comprising:
 - (e) an implantable neural stimulator capable of being coupled to the implantable lead to provide stimulation energy to the lead; and
 - (f) a second communications link between the programmer and the implantable neural stimulator to enable the programmer to program the implantable neural simulator

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with the final therapy parameters via the second communications link.

3. The system as claimed in claim 1, wherein the bi-directional communications link enables the

programmer to provide to the external neural stimulator configuration information for a type of an

implantable neural stimulator that is to be implanted.

4. The system as claimed in claim 1, wherein the bi-directional communications link enables the

programmer to provide the external neural stimulator with upgraded computer executable

instructions.

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5. The system as claimed in claim 1, wherein the bi-directional communications link enables the

external neural stimulator to provide information to the programmer, wherein the information is

selected from the group consisting of parameter settings, patient diagnostic data, system diagnostic

data, data on device usage, data regarding the last programmer/ENS session, the state of the device,

configuration of the INS 210, whether a valid communication channel exists,

6. The system as claimed in claim 5, wherein the parameter setting information is selected from

the group consisting of stimulation frequency, stimulation pulse amplitude, stimulation pulse width,

and electrode configuration.

7. The system as claimed in claim 5, wherein the patient diagnostic data is usage data.

- 8. The system as claimed in claim 5, wherein the system diagnostic data information is selected from the group consisting of battery status, estimated longevity of implanted device, lead system integrity, and load impedance.
- 9. The system as claimed in claim 1, wherein the bi-directional communications link provides an indication that a viable communications link exists between the programmer and the external neural stimulator.
- 10. The system as claimed in claim 1, wherein the programmer is mechanically linked to the external neural stimulator.
- 11. The system as claimed in claim 1, wherein the programmer is a physician programmer.
- 12. The system as claimed in claim 1, wherein the programmer is a patient programmer.
- 13. A programmer for establishing therapy parameters of an implantable medical device comprising in combination:
 - (a) a user interface to allow entry of the therapy parameters by a user; and
 - (b) a bi-directional communications interface for communicating with the an external neural stimulator to enable the programmer to program the external neural simulator

with the therapy parameters and to enable the external neural stimulator to provide final therapy parameter settings to the programmer, whereby the programmer may then program an implantable neural stimulator using the final therapy parameters.

- 14. The system as claimed in claim 13, wherein the programmer is a physician programmer.
- 15. The system as claimed in claim 13, wherein the programmer is a patient programmer.
- 16. An external neural stimulator for providing stimulation energy to at least one implanted lead in accordance with therapy parameters comprising in combination:
 - (a) an interface for coupling the external neural stimulator to the implanted lead; and
 - (b) a bi-directional communications interface for communicating with a programmer to enable the programmer to program the external neural simulator with the therapy parameters and to enable the external neural stimulator to provide final therapy parameter settings to the programmer, whereby the programmer may then program an implantable neural stimulator using the final therapy parameters.
- 17. A method of establishing initial therapy parameters of an implantable medical device comprising the steps of:
 - (a) implanting at least one lead having a distal end, wherein the distal end of the lead is near at a predetermined portion of a body;

- (b) coupling a proximal end of the lead to an external neural stimulator;
- (c) establishing a bi-directional communications link between the external neural stimulator and a programmer;
- (d) programming by the programmer the external neural stimulator with therapy parameters; and
- (e) providing final therapy parameters to the programmer from the external neural stimulator, whereby the programmer may then program an implantable neural stimulator using the final therapy parameters.
- 18. The method as claimed in claim 17, further comprising the step of:
 - (f) adjusting the therapy parameters of the external neural stimulator using the programmer.
- 19. The method as claimed in claim 17, wherein the step of programming is performed via telemetry.
- 20. The method as claimed in claim 17, wherein the step of programming is performed using a physician programmer.
- 21. The method as claimed in claim 17, wherein the step of programming is performed using a patient programmer.

- 22. A medical system for providing electrical treatment therapy to a patient comprising in combination:
 - (a) at least one implantable lead delivering treatment therapy to the patient;
 - (b) an external neural stimulator having a first interface for coupling to the implanted lead for providing stimulation energy to the lead and a first bi-directional communications interface;
 - (c) an implantable neural stimulator capable of being implanted within a body of a patient and having an second interface for coupling to the implanted lead for providing stimulation energy to the lead and a second bi-directional communications interface;
 - (d) a physician programmer having a first user interface to allow entry of therapy parameters by a user and a third bi-directional communications interface for communicating with the external and implantable neural stimulators to enable the physician programmer to program the external and implantable neural simulators with the therapy parameters and to enable the external and implantable neural stimulators to provide therapy parameter settings back to the physician programmer; and
 - (e) a patient programmer having a second user interface to allow entry of therapy parameters by a user and a fourth bi-directional communications interface for communicating with the external and implantable neural stimulators to enable the

patient programmer to program the external and implantable neural simulators with the therapy parameters and to enable the external and implantable neural stimulators to provide therapy parameter settings back to the patient.